#### PATENT COOPERATION TREATY

### **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PCT/HSD04	FOR FURTHER ACTION	See item 4 below
International application No. PCT/KR2005/003703	International filing date (day/month/year) 04 November 2005 (04.11.2005)	Priority date (day/month/year) 04 November 2004 (04.11.2004)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant DONGMYUNG INDUSTRIAL CO., LTD.		

1.	. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).	
2.	This REPORT consists of a total	of 5 sheets, including this cover sheet.
		nce to the written opinion of the International Searching Authority should be read as a reference eport on patentability (Chapter I) instead.
3.	This report contains indications r	relating to the following items:
	Box No. I	Basis of the report
	Box No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application
4.		mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but nakes an express request under Article 23(2), before the expiration of 30 months from the priority

	Date of issuance of this report 08 May 2007 (08.05.2007)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Philippe Becamel
Facsimile No. +41 22 338 82 70	e-mail: pt12.pct@wipo.int

Form PCT/IB/373 (January 2004)

#### PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY

To: PARK, Joon Young		PCT
Samho park 504. 1122-10Ingye-dong, Paldal-gu 835 Republic of Korea	VV.	RITTEN OPINION OF THE FIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)
	Date of mailing (day/month/year)	02 MARCH 2006 (02.03.2006)
Applicant's or agent's file reference PCT/HSD04	FOR FURTHER A	ACTION See paragraph 2 below
	ational filing date (day/month/year) OVEMBER 2005 (04.11.2005)	Priority date(day/month/year) 04 NOVEMBER 2004 (04.11.2004)
International Patent Classification (IPC) or both B65D 90/06(2006.01)i  Applicant  DONGMYUNG INDUSTRIAL CO.,		
Box No. IV Lack of unity of invertible Box No. V Reasoned statement uncitations and explanation Box No. VI Certain documents cit	opinion with regard to novelty, inventivention ander Rule 43bis.1(a)(i) with regard to no ons supporting such statement ted international application	e step and industrial applicability  evelty, inventive step or industrial applicability;
2. <b>FURTHER ACTION</b> If a demand for international preliminary exa International Preliminary Examining Authori other than this one to be the IPEA and the ch opinions of this International Searching Auth If this opinion is, as provided above, conside IPEA a written reply together, where appropr of Form PCT/ISA/220 or before the expiration For further options, see Form PCT/ISA/220.	ity ("IPEA") except that this does not apposen IPEA has notified the International nority will not be so considered.  Freed to be a written opinion of the IPEA, riate, with amendments, before the expirent of 22 months from the priority date, we have the priority date.	pply where the applicant chooses an Authority I Bureau under Rule 66.1bis(b) that written the applicant is invited to submit to the ration of 3 months from the date of mailing
3. For further details, see notes to Form PCT/IS	5A/220.	
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea		Authorized officer  CHEE Seon Koo

Telephone No.82-42-481-5463

Facsimile No. 82-42-472-7140

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/003703

Во	x No. I Basis of this opinion
1.	With regard to the <b>language</b> , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	on paper in electronic form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/003703

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims 1-5	YES	
	Claims	NO	
Inventive step (IS)	Claims 1-5	YES	
	Claims	NO	
Industrial applicability (IA)	Claims 1-5	YES	
	Claims	NO	

#### 2. Citations and explanations:

Claims 1-5 disclose a liquid storage tank made of assembling heat insulation panels, wherein the insulation panel comprises a synthetic resin layer, a galvanized steel sheet, an urethane layer and a colored steel sheet in a row.

None of the available prior art discloses an insulation panel of the liquid storage tank comprising a polyethylene layer tightly bonded inside the thermal insulation structure. Accordingly, Claims 1-5 seem to be novel and involve an inventive step.

Claims 1-5 have industrial applicability to a harmless liquid storage tank with durability and productivity.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:
Claim 4, dependent upon claim 1, refers to "an engaging member", but claim 1 does not include any mention of the engaging member for reinforcement.